Fibroblast activity kills - Circulating endotrophin (PRO-C6) is prognostic for liver-related events in patients with cirrhosis from chronic hepatitis C

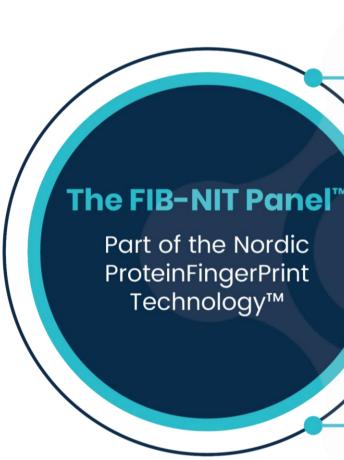
BACKGROUND

Prognostic markers for patients with compensated cirrhosis at increased risk of developing liver-related events are required. Endotrophin, a potential driver of fibroblast activation and mediator of fibroinflammatory disease, can be assessed non-invasively using PRO-C6. Blood-based collagen extracellular matrix remodeling markers may provide novel prognostic information to identify patients with cirrhosis at higher risk of developing a liverrelated event.

Our aims were to investigate the ability of PRO-C6 to predict liver-related events in The Hepatitis C Antiviral Long-Term Treatment Against Cirrhosis Trial (HALT-C) (ClinicalTrials.gov #NCT00006164).

METHODS

Our study population included 339 chronic hepatitis C (CHC) patients with and without cirrhosis from HALT-C. NordicPRO-C6[™] from The FIB-NIT Panel[™], was assessed in serum using a fully validated competitive enzymelinked immunosorbent assay. Between groups comparison of biomarker levels was performed using Mann-Whitney U test. Quartile-based analysis stratified patients in high and low baseline PRO-C6. Cox proportional hazards regression was used to analyze the prognostic value of serum PRO-C6 to identify patients at risk of developing liver-related events. Data provided by NIDDK CR, a program of the National Institute of Diabetes and Digestive and Kidney Diseases



Demographics

Table 1.

Baseline **Characteristics**

Sex, female

AGE, years

BMI, kg/m2

Alcohol consumption, life drinks ALT, U/L PRO-C6, ng/mL

Ishak fibrosis score 0-6, n

All patients N = 339'109 (32%)

50 (47, 55) 29.4 (26.6, 32.6)

6,677 (1,095, 20,066)

87 (61, 129)

12.4 (10.0, 15.0)

0/0/21/109/58/79/72

62 (33%) 50 (47, 54)

No cirrhosis

N = 188¹

29.5 (26.4, 32.6)

6,150 (861, 15,924)

86 (57, 124) 11.5 (9.6, 14.2)

0/0/21/109/58/0/0

66 (19%)

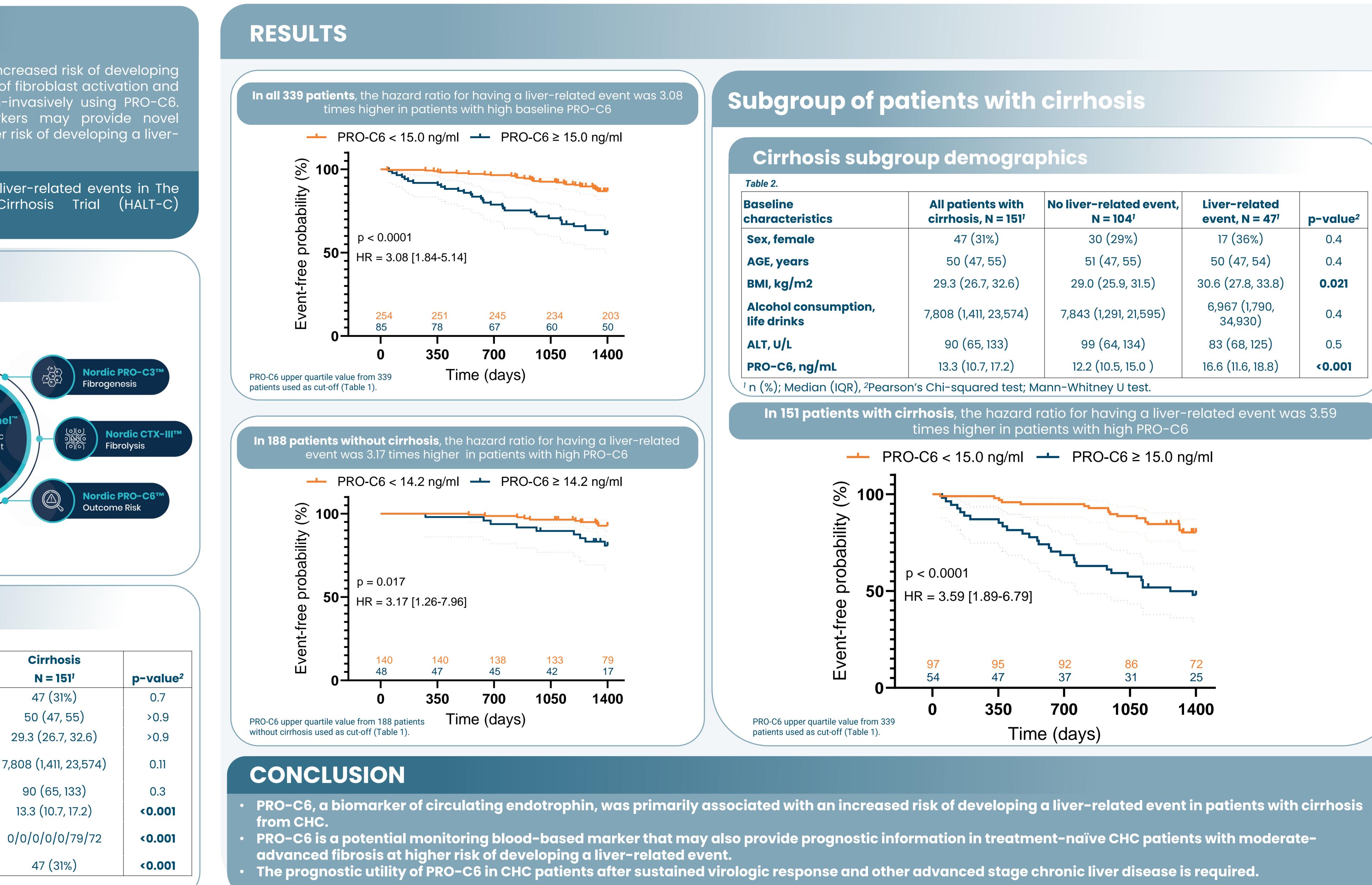
19 (10%) Liver-related event ¹ n (%); Median (IQR), ²Pearson's Chi-squared test; Mann-Whitney U test.



Contact: Thomas Wiggers, twm@nordicbio.com **Disclosures**: TW, ES, MK, and DJL are employed at Nordic Bioscience. MK and DJL are shareholders.

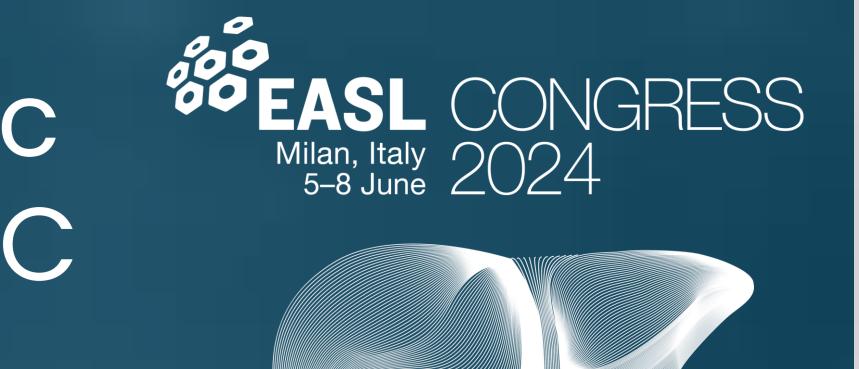
T. Wiggers^{1,2}, E. Skovgaard^{1,2}, M. Karsdal¹, D. J. Leeming¹, K. Patel³ ¹Nordic Bioscience, Herlev, Denmark,

²University of Copenhagen, Denmark, ³University Health Network, Toronto



NORDIC BIOSCIENCE





Liver-related **event**, N = 47¹ p-value² 17 (36%) 0.4 50 (47, 54) 0.4 30.6 (27.8, 33.8) 0.021 6,967 (1,790, 0.4 34,930) 83 (68, 125) 0.5 16.6 (11.6, 18.8) <0.001



National Institute of **Diabetes and Digestive** and Kidney Diseases